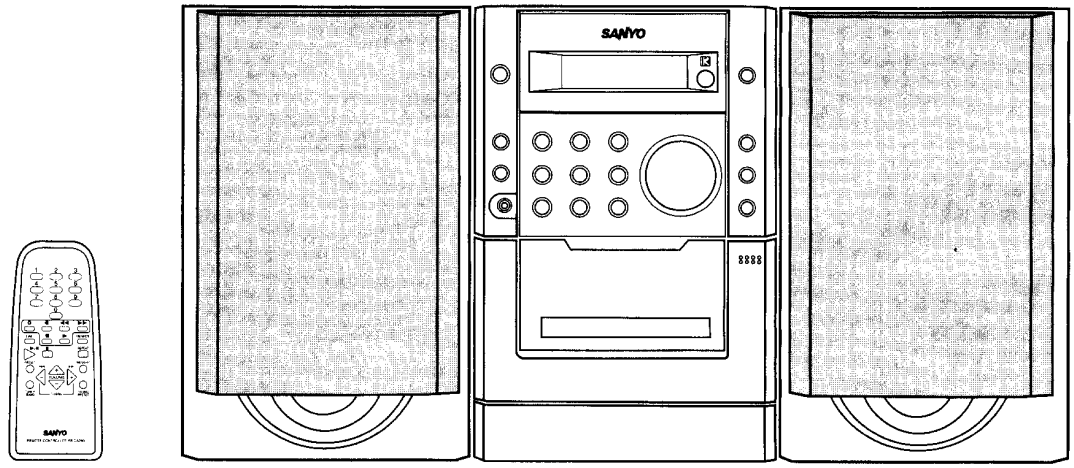
SANYO

INSTRUCTION MANUAL

DC-DA280

Micro Component System



SPECIFICATIONS

Tuner
Reception frequency:
FM: 87.5 - 108 MHz
MW: 522 - 1611 kHz (9 kHz step)
520 - 1610 kHz (10 kHz step)
LW: 144 - 288 kHz

CD player
Channels:
2-channel stereo
Sampling frequency:
44.1 kHz
Pick-up:
Optical 3-beam semiconductor laser
Laser output:
0.6 mW (Continuous wave max.)
Wave length:
790 nm
Wow/flutter:
Below measurable limits

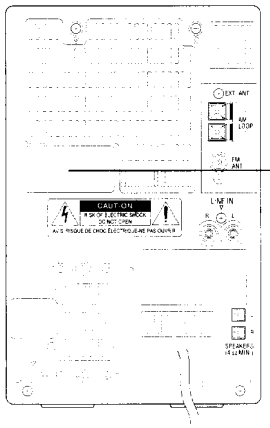
Cassette deck
Track system:
4-track, 2-channel stereo
Frequency response:
80 Hz to 15 kHz
Signal-to-noise ratio:
40 dB
Wow/flutter:
0.15% (WRMS)
Fast forward/rewind time:
Approx. 110 sec. (C-60)

General
Output power:
4W x 2 (at 4 ohms, 10% distortion)
Outputs:
SPEAKERS: 4 ohms
PHONES: 8 - 32 ohms
Power requirements:
AC 230 V, 50 Hz
Power consumption:
21 W
Dimensions:
150(W) x 230(H) x 205(D) mm
Weight:
2.3 kg

Speaker systems
Type:
Full range bass reflex
Unit used:
10 cm cone type
Maximum power-handling capacity:
8 W (peak)
Nominal impedance:
4 ohms
Dimensions:
145(W) x 230(H) x 170(D) mm
Weight:
1.2kg (per speaker)

Specifications subject to change without notice.

PRECAUTIONS



CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

CAUTION

THIS PRODUCT CONTAINS A LOW POWER LASER DEVICE, TO ENSURE CONTINUED SAFETY DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THE PRODUCT.
REFER ALL SERVICING TO QUALIFIED PERSONNEL.

- The apparatus shall not be exposed to dripping or splashing.
- No objects filled with liquids, such as vases, shall be placed on the apparatus.
- Do not use where there are extremes of temperature (below 5°C or exceeding 35°C) or where direct sunlight may strike it.
- Because of the CD player's extremely low noise and wide dynamic range, there might be a tendency to set the volume on the amplifier unnecessarily high. Doing so may produce an excessively large output from the amplifier which could damage your speakers.
- Sudden changes in the ambient temperature may cause condensation to form on the optical lens inside the unit. If this happens, take out the disc, leave the unit for about 1 hour, and then proceed to operate.
- The system's speakers use powerful magnets. Do not place timepieces, credit cards, cassette tapes or video tapes, etc. near the speakers.
- Do not install this equipment in a confined space, such as a book case or built in cabinet.

IMPORTANT

If the plug supplied with this equipment is not suitable for the socket outlets in your home it should be cut off and replaced with the correct type.

Disposal of Plug

If the non rewireable plug is to be cut off, the removed plug should be disposed of carefully as there is a shock hazard should the plug be inserted into a live socket.

Replacing Fuse

The detachable fuse cover must be replaced after changing the fuse. Only a 3A fuse should be used and should comply with BS1362 and should carry the ASTA mark ASA .

The wires in the mains lead are coloured in accordance with the following code;

Blue	Neutral
Brown	Live

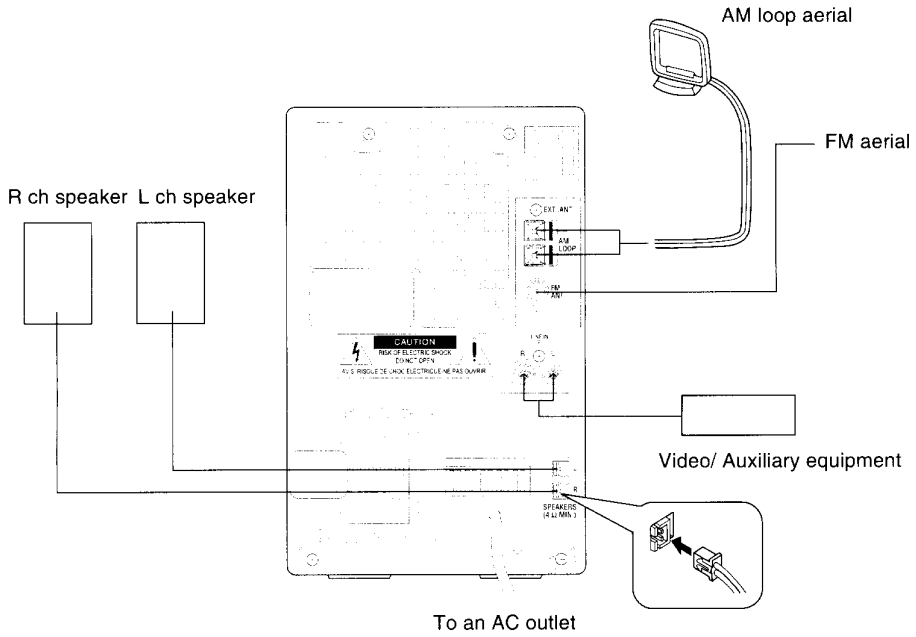
The wires in the mains lead must be connected to the terminals in the plug as follows;

Wire colour	Plug terminal marking
Blue	N or Black or Blue
Brown	L or Red or Brown

Do not connect either wire to the earth terminal.
If the mains plug contains a fuse this should be 3A, if a plug without a fuse is used the distribution board fuse should not be greater than 5A.

The unit is not disconnected from the mains unless it is unplugged from the AC outlet

CONNECTIONS



Note:
- Do not connect the mains lead to an AC outlet until all connections have been made.
- The system is not completely disconnected from the mains when the power button is set to the ⏻ OFF position.

Speakers

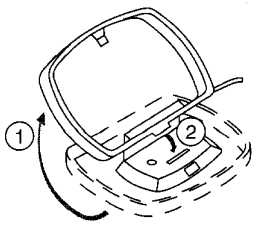
Connect the connector of the left speaker lead to the "L" SPEAKERS socket and the connector of the right speaker lead to the "R" socket.
If you have difficulty inserting the speaker lead connector, turn it over and reinsert it.

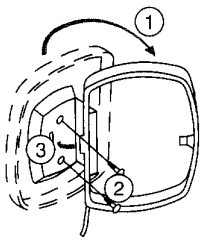
FM aerial

FM indoor aerial is sufficient to receive broadcasts. Extend the aerial wire as straight as possible and, while listening to the sound from the system, secure it in a position which yields minimal distortion and noise.

AM Loop aerial

Assemble the loop aerial as shown in figure. Unwind the aerial wires, then connect them to the AM LOOP terminals. Place the loop aerial in a position which yields the best AM reception, or attach it to a wall or other surface as shown in figure.





Screws (not supplied)

Note:
To minimize noise, the speaker, mains and any other leads should not come close to the indoor or external aerial lead and AM loop aerial. Do not place the aerial leads close to the system.

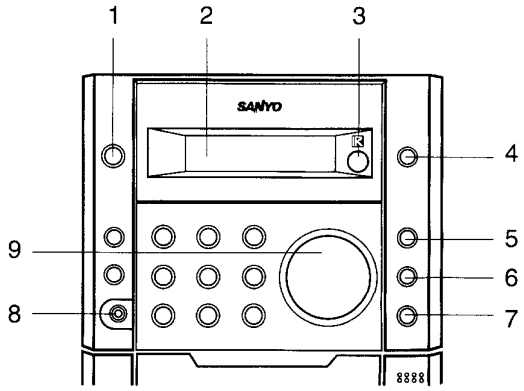
Video/Auxiliary equipment

Connect audio leads (not supplied) from the audio output sockets of a video/auxiliary equipment to the LINE IN sockets.

Headphones

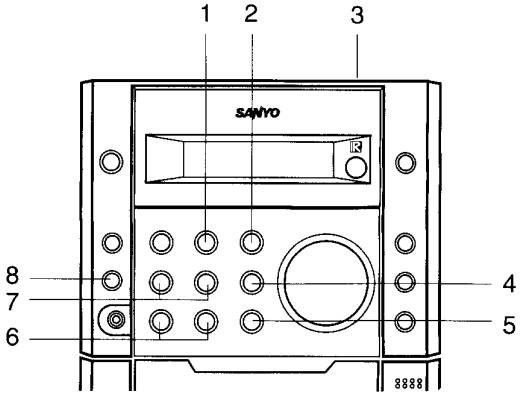
Connect stereo headphones (not supplied) to the PHONES socket for monitoring or for private listening. The speakers are automatically disconnected when headphones are connected.

CONTROLS



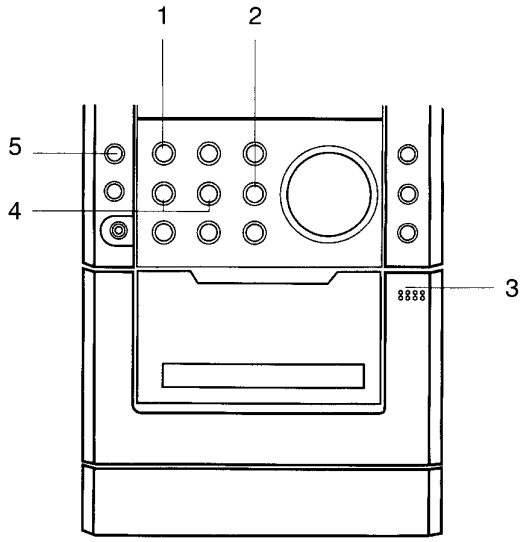
General

1. Power button (■ OFF, ▬ ON)
2. Display
3. Remote sensor (IR)
4. Function button (FUNCTION)
5. Bass expander button (BASS)
6. Sound preset button (SOUND PRESET)
7. Surround button (SURROUND)
8. Headphones socket (PHONES)
9. Volume control (VOLUME)



CD player/ Tuner

1. Repeat play button (REPEAT)
2. Play/Pause button (CD)
3. CD Compartment lid
4. Stop/Clear button (□)
5. Tuner function/Band select button (TUNER/BAND)
6. Tuning buttons (TUNING -, +)
7. Skip/Search/Preset tuning buttons (PRESET -, +/ ⏮, ⏭)
8. FM mode button (FM MODE)

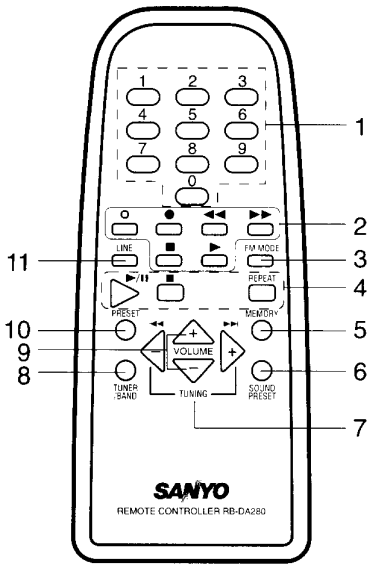


Cassette deck

1. Play button (TAPE)
2. Stop button (□)
3. Cassette holder
4. Fast forward/ Rewind buttons (PRESET -, +/ ⏮, ⏭)
5. Record/ Record pause button (●/❚❚)

REMOTE CONTROL

Controls



1. Number buttons (1-9, 0)
2. Cassette deck controls
   O: Record muting button
   ●: Record/Record pause button
   ◄◄, ►►: Fast forward/Rewind buttons
   ►: play button
   ■: Stop button
3. FM mode button (FM MODE)
4. CD player controls
   ►/II: Play/Pause button
   ■: Stop button
   REPEAT: Repeat button
5. Memory button (MEMORY)
6. Sound preset button (SOUND PRESET)
7. Tuning buttons (TUNING +, -, I◄◄, ►►I)
   (These buttons can also be used as CD playing tracks skip and search button)
8. Tuner function/Band select button (TUNER/BAND)
9. Volume buttons (VOLUME +, -)
10. Preset tuning button (PRESET)
11. Line function button (LINE)

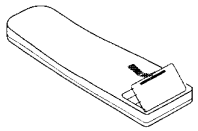
Number buttons (1-9, 0)

These buttons are used to select the track numbers on a disc or preset radio stations.
If the function is "CD", the buttons select the track numbers on a disc.
If the function is "TUNER", the buttons select preset radio stations.
With any other function, the buttons will not function.

- Two buttons must always be pressed.
  Example:
  To select No. 3, press 0, then 3.
  To select No. 10, press 1, then 0.
  To select No. 25, press 2, then 5.

Inserting batteries

1



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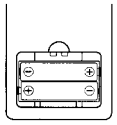
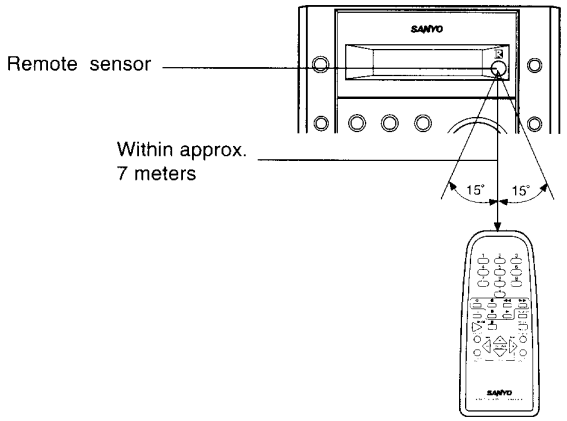


Two R03/HP16 batteries
(not supplied)

Note:
Always remove batteries if the remote control is not to be used for a month or more. Batteries left in the unit may leak and cause damage.

Remote control range



GENERAL OPERATION

Turning the power on and off

To turn the power on, press the power button and the display lights.
To turn the power off, press the power button again, the display goes out.

Selecting the function

Press the FUNCTION button to select the desired function as follows display shows.

Cd ⟶ TAPE ⟶ TU ⟶ LInE ⟶ Cd ⟶ ...

The function is automatically selected when CD play or type playback is started or when the TUNER/BAND button has been pressed (except during recording).

- When the function selection is changed, CD play or tape playback is automatically stopped.

Adjusting the volume

Turn the VOLUME control, (or press the + or - VOLUME button on the remote control). The volume level appears on the display. (VOL 0 ~ VOL 40)

Surround sound button

Press the SURROUND button, "SURR" appears on the display and a 3 dimensional sound effect is created.

Bass expander button

Press the BASS button to enhance the bass sound.
"BASS" appears on the display.

Selecting the sound mode

Press the SOUND PRESET button to select the sound mode matching the music to be listened to.
POP: Pops, etc.
ROCK: Rock music, etc.
JAZZ: Jazz, etc.
CLASSIC: Classical music, etc.

WHAT TO DO IF ...

If the operation of the unit or display is not normal,

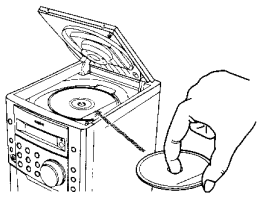
1. Disconnect the mains lead.
2. Press the CD button on the unit for at least 30 seconds.
3. Connect the mains lead.
4. Operate the unit.

CD PLAY

Use compact discs bearing the symbol shown. In addition to conventional 12 cm CDs, this system can be used to play 8 cm CDs without an adapter.

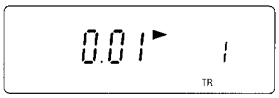
COMPACT disc DIGITAL AUDIO

1. Press the FUNCTION button to select "CD" function.
2. Press the CD compartment lid (▲ CD OPEN/CLOSE portion). The CD compartment opens.
3. Place the disc with the label facing up on the disc turntable. (Place only one disc at a time.)
4. Press the CD compartment lid (▲ CD OPEN/ CLOSE portion) to close it.
   The total number of tracks and total playing time on the disc appear.



Note:
If the disc is loaded with the label facing downward, or if a badly scratched disc is loaded, "Cd" appears. If this occurs, load the disc correctly or replace the damaged disc.

5. Press the CD button. Play starts from the first track.
   The current track number and elapsed playing time are displayed.



6. Press the □ button to end disc play.
   When the last track has been played, the player stops automatically.

Note:
Always press the □ button and wait for the disc to stop rotating before opening the CD compartment.

Notes on handling compact discs

- Do not expose the disc to direct sunlight, high humidity or high temperatures for extended periods of time.
- Discs should be returned to their cases after use.
- Do not apply paper or write anything on the disc surface.
- Handle the disc by its edge. Do not touch the playing surface (glossy side).
- Fingerprints and dust should be carefully wiped off the playing surface of the disc with a soft cloth.
  Wipe in a straight motion from the centre to the outside of the disc.
- Never use chemicals such as record cleaning sprays, antistatic sprays or fluids, benzene or thinner to clean compact discs.

To start play from the desired track

Select the track by using the ⏮ or ⏭ button, then press the CD button.

Using the remote control
Press two number buttons within 2 seconds. (Example: press 0, then 3.)

Temporarily stopping play

Press the CD button (or ▶/II button on the remote control). " ▶ " blinks on the display. To resume play, press the button again.

Skip play

To skip to track 6 while track 3 is playing, press the ⏭ button repeatedly until "6" appears (in the track section) on the display. To skip back to track 3 while track 6 is playing, press the ⏮ button repeatedly until "3" appears.

- The number buttons on the remote control can also be used for skip play. To skip to track 6 while one track is playing, press 0, then 6.

Search (forward/reverse)

If the ⏮ or ⏭ button is pressed during play, the player will search at high speed in the forward or reverse direction while the button is being pressed. When the button is released, normal play will continue.

Repeat play

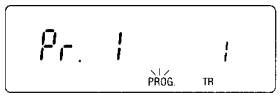
Press the REPEAT button before or during play. The player will play all the tracks or all the programmed tracks repeatedly. " 🔁 " appears. To cancel repeat play, press the REPEAT button again. " 🔁 "disappears.

PROGRAMMED PLAY

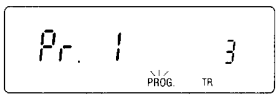
Up to 24 tracks on a disc can be programmed for play in any order.

- First, select "CD" function and load a disc that you want to programme.
- The tracks must be programmed in the stop mode.
- The same track can be programmed more than once.

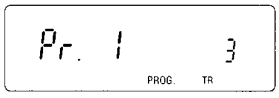
1. Press the MEMORY button on the remote control.



2. Select a track by using the ⏭ or ⏮ button.
   - The number buttons on the remote control can also be used.

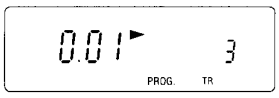


3. Press the MEMORY button on the remote control.



4. Repeat steps 2-3 to programme additional tracks.

5. Press the CD button to start programmed play.
   When all programmed tracks have played, the player stops automatically.



   - The programme contents are retained in memory.

- Any attempt to programme more than 24 tracks will result in "FULL" being displayed and discontinuation of the programming.
- To cancel programmed play, press the □ button twice.

Checking the programme (Remote control only)

Each time the MEMORY button is pressed in the stop mode, the programmed details sequentially appear on the display.

Changing a programme

To add a new track to a programme: (Remote control only)

1. In the stop mode, press the MEMORY button repeatedly until "- -,- - - -" is displayed.
2. Select a track as explained above.
3. Press the MEMORY button.

To change a track: (Remote control only)

1. In the stop mode, press the MEMORY button repeatedly until the track number to be replaced is displayed.
2. Select a track as explained above.
3. Press the MEMORY button.

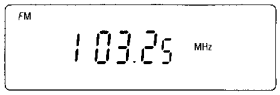
Note:
Programmed details cannot be partially deleted or inserted.

LISTENING TO THE RADIO

Automatic/Manual tuning

1. Press the FUNCTION button to select TUNER. The radio frequency appears.
2. Press the TUNER/BAND button to select FM, MW or LW.
   Automatic tuning
   Press the TUNING - or TUNING + button for at least 1 second to tune in a station. The unit will scan up or down the band and receive the next receivable station. Press the button again to continue.
   - The ▶▶| or |◀◀ button on the remote control can also be used.

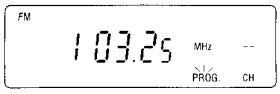
   Manual tuning
   Press the TUNING - or TUNING + button briefly until the desired frequency is displayed.



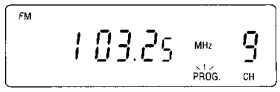
To preset stations (Remote control only)

Up to 24 stations for FM band, 12 stations for MW band, and up to 4 stations for LW band can be preset.

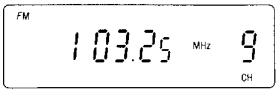
1. Tune in the station to be preset as described above.
2. Press the MEMORY button on the remote control..



3. Press the PRESET - or PRESET + button on the front panel (or PRESET button on the remote control) to select the channel number to be preset.



4. While "PROG." is blinking, press the MEMORY button. "PROG." disappears.
   - In this example, "103.25 MHz" FM station is preset on FM channel 9.
   - The number buttons on the remote control can also be used. In this example, press 0, then 9 after the step 2 above.



Note:
If the next step is not taken within 10 seconds while performing steps 2 - 4, "PROG." disappears and the preset operation is cancelled. Press the MEMORY button on the remote control to continue.

5. Repeat steps above to add more preset stations.

   - When presetting a new station, the previous preset station is cleared.

Listening to preset stations

1. Press the TUNER/BAND button to select FM, MW or LW.
2. Press the PRESET - or PRESET + button on the front panel (or PRESET button on the remote control) to select the desired channel number. The selected channel number appears briefly.
   - The number buttons on the remote control can also be used. Press two number buttons within 2 seconds.

To receive FM stereo broadcasts

"ST" appears when an FM stereo broadcast is received in the stereo mode.
Make sure the reception mode is in stereo. or else, press the FM MODE button.

- If the signal from an FM stereo station is weak and reception is poor, press the FM MODE button to change to the mono mode. The reception may be improved, but the sound will be monaural.

When beat interference is heard

A high-pitched noise called "beat" is sometimes heard during reception of radio broadcasts. If this occurs.

1. Press the MEMORY button on the remote control.
2. When "PROG." is blinking, press the FM MODE button to select "bc-A" or "bc-b". Select the setting that gives the best results.

Changing the MW reception frequencies

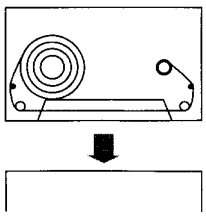
It is not necessary to perform this procedure in the Europe.

1. Press the TUNER/BAND button to select "MW".
2. While pressing the □ button on the front panel, press the ▷▷| button on the front panel.

522 - 1611 kHz (9kHz steps) ——— 520 - 1610 kHz (10 kHz steps)

LISTENING TO TAPES

1. Press the FUNCTION button to select "TAPE".
2. Press the cassette holder (EJECT portion) to open it.
3. Load the cassette.
   After loading the cassette, push the cassette holder (EJECT portion) back into position.
4. Press the TAPE button to begin playback.
5. Press the □ button to stop playback at any time. Press it again to remove the cassette.
   When the end of the tape has been reached, automatic stop will be activated.



Note:
- Use the normal tape (TYPE 1).
- Endless tapes cannot be used.
- Do not use C-100 (or longer) tapes. They may jam in the mechanism.

Fast forward and rewind

Press the |◁◁ or ▷▷| button. When the desired location has been reached, press the □ button.

LISTENING TO OTHER SOURCES

1. Press the FUNCTION button to select "LINE".
2. Follow the instructions supplied with the Video/Auxiliary equipment.

RECORDING

Recording copyright material without permission of the copyright owners is usually an infringement. If you wish to re-record copyright material, permission from the copyright owner is necessary. SANYO does not approve of, and cannot be held responsible for, any unlawful use of this machine.

Recording compact discs (Synchronous recording)

1. Press the FUNCTION button to select "CD" function.
2. Load the disc to be recorded.
   - For programmed recording, programme the material in advance (as described under "PROGRAMMED PLAY").
3. Select the track number to be recorded if required.
   - For programmed recording, this step is unnecessary.
4. Press the ●/II button (or the ● button on the remote control). The deck enters the recording pause mode and "REC" appears. " ►" blinks.
5. Press the TAPE button. Recording starts.
6. Press the □ buton to stop recording. Also the CD player stops automatically.

Recording from the tuner or other sources

1. Tune in the radio station to be recorded or play other sources.
2. Press the ●/II button.
3. Press the TAPE button. Recording starts.
4. Press the □ button to stop recording.

When beat interference is heard

A high-pitched noise called "beat" is sometimes heard during the recording of radio broadcasts. If this occurs.

1. Press the MEMORY button on the remote control.
2. While "PROG." is blinking, press the TUNING - button to select "bc-1" or "bc-2". Select the setting that gives the best results.

Automatic record muting (Remote control only)

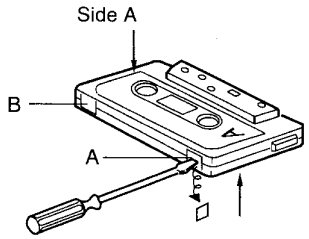
Undesirable parts of a programme can be omitted wile recording. Press the O button once while recording. "REC" blinks and a 5-second unrecorded blank space is created, then the deck enters the recording pause mode. "REC" remains lit and " ►" blinks on the display.

- To add another 5-second blank space, press the O button again.
- To resume recording, press the TAPE button.

Safeguards against accidental erasure

Accidental erasure can be prevented by breaking out the tabs on the end of the cassette tape (where the tape is not exposed) using a screwdriver or similar implement.

If a tab is broken out in error and you wish to re-record the tape, simply block the tab hole using adhesive tape and the tape can be used for recording again.

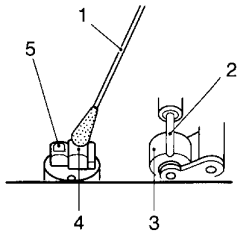


Break out tab A for side A.
Break out tab B for side B.

MAINTENANCE

Cleaning the tape heads

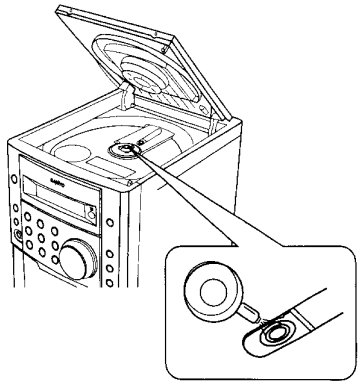
To ensure continued high performance, use cotton swab to clean the heads, pinch roller and capstan of the deck after about every 10 hours of use. If the dirt persists, soak the swab in a little methylated spirit or head cleaning fluid and then clean.



1. Cotton swab
2. Capstan
3. Pinch roller
4, 5. Head

Cleaning the CD player lens

The lens should never be touched. If dust is on the lens, blow it off using a camera lens blower. (Consult your dealer.)



Cleaning the unit

Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use benzene, thinner of alcohol since they will mar the finish of the surfaces.

GUARANTEE TO CUSTOMER

Sanyo Europe Ltd. (the Company) guarantees to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workmanship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, at its sole option, free of charge, any such defective component part of the equipment, always provided that:-

1. The equipment has at all times been used in accordance with the operating instructions issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.
2. Accidental damage, or damage caused by negligence or misuse by the user, including leakage from exhausted batteries, is specifically excluded.
3. Unauthorized repairs, or any modification to the equipment which has not been expressly approved by the Company, shall render this guarantee null and void.
4. Failure due to fair wear and tear of any item, such as batteries, record playing styli, and tape recording, playback and erase heads is specifically excluded.

This guarantee is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland). Nothing in this express guarantee affects the statutory rights available to the purchaser of this equipment.
Note: This guarantee supersedes any other form of guarantee that may inadvertently have been enclosed with or attached to the product. (August 1978).

Dear Customer

Thank you for buying Sanyo. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for your guidance may be helpful:-

1. PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING GUARANTEE.
2. If your Sanyo equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in-guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
3. If for some reason it is impossible to return the equipment to the original supplier , please contact our Consumer Relations Department at the address below for further advice.
4. Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair. If you are in any doubt about what to do, write to us at the address below or telephone:

Consumer Relations Department,
Sanyo Europe Ltd.,
Sanyo House
Otterspool Way, Watford,
Hertfordshire WD2 8JX
Tel: Watford 246363

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